



THE WATERBURY SYSTEM

Healthful Heat with Ventilation for

Village and Rural Schools

THE WATERMAN-WATERBURY COMPANY

MINNEAPOLIS, MINNESOTA

THE WATERBURY SCHOOL

KEEPS CHILDREN HEALTHY AND COMFORTABLE

E **EDUCATION**, without health, is not worth the cost of the text books. The larger city schools, in recognition of this fact, are almost universally equipped with elaborate and expensive ventilating systems. Remembering that the child of school age spends approximately half of his time in a crowded school room, it is easy to appreciate the great importance of putting COMFORT and PROTECTION from contagious disease above any other part of the school equipment. What good will education do any child if it is attained at a sacrifice of health ?

▶▶▶▶ ADEQUATELY VENTILATING AND HEATING THE SMALL SCHOOL ◀◀◀◀

The Waterbury Heating and Ventilating System supplies for the small school, at low cost, comfortable warmth and adequate ventilation, so necessary to the proper conduct of a modern school and demanded as a first equipment requirement in so many of the larger cities. The Waterbury System warms the air to just the right temperature; it heats the room by healthful air motion; it supplies the right amount of moisture to the air; it keeps the floors warm; it introduces fresh outdoor air and exhausts the foul air. The Waterbury System is a completely modern heating and ventilating system, requiring no basement. It can be installed in a few hours' time in any school room. It helps the child to robust citizenship.

▶▶▶▶ DEPENDABILITY AND BEAUTY IN A SCHOOL ROOM HEATER ◀◀◀◀

Behind the Waterbury System is nearly a quarter of a century of experience in school heating and ventilation. The new models of the Waterbury System, shown in this catalog, are built on our experience in the manufacture of over 90,000 heating systems installed in nearly every part of the United States and Canada. There is a Waterbury System to fit every need and every pocketbook. There is dependability and Waterbury service in every model. Each one will adequately heat and ventilate any school room within its rating.

MANUFACTURED AND GUARANTEED
BY

THE WATERMAN-WATERBURY COMPANY

1121 JACKSON STREET N. E.
MINNEAPOLIS, MINNESOTA



STYLE "B" SEAMLESS SCHOOL HEATER—IT'S A BEAUTY!

GOOD LOOKING - EFFICIENT - DURABLE

Our Finest Heater

For years, school directors have been demanding a good looking heater. There were good looking heaters for homes, why couldn't larger ones be built for schools. Waterbury in response to this demand has actually built an efficient heating and ventilating system, large enough to adequately heat and ventilate school rooms and, at the same time, striking in its good looks — and permanently so.

The jacket of this heater is made of 20-gauge durable Armco iron, finished in vitreous enamel, a finish that will not burn, rust nor tarnish, a finish that can be washed with soap and water. The color is school furniture brown, selected expressly to match the newest mode in school decoration. The finish is an

exact duplicate of rich, handsome walnut grain. In fact, this finish is obtained only thru a patented process of transferring the impression of the actual grain of an ideal walnut board onto the heater jacket, then fusing this impression into a redhot sheet, so that it is there to stay.

The heater is furnished complete as shown with heavy furnace, walnut finished jacket, insulated fresh air intake, foul air register, vent regulator and smoke pipe. Complete illustrated directions make it easy for any handy man to install the Waterbury in less than a day without special tools. For beauty, durability and efficiency, this heater has no equal. It is the crowning achievement of years of experience in school heating and ventilation.

THE WATERBURY SEAMLESS SCHOOL HEATER

SEAMLESS FURNACE BODY



FURNACE BODY—WATERBURY SEAMLESS HEATER

At the left is shown the big, powerful heater body furnished with the Waterbury Seamless School Heater, a development of nearly a quarter of a century's experience in school heating. Steel construction has proven most durable, less expensive in the long run, and banishes forever the nuisance of replacing cracked firepots. The bricklined firepot of the Waterbury Seamless can be repaired at little expense without taking the heater apart — just set a new brick in place, that is all there is to it. Seamless construction is the best guaranty against leakage of poisonous gases into the school room. This SEAMLESS heater brings in fresh air and *keeps* it fresh.

The same grates are used as on most basement furnaces and boilers — locomotive type grates. They stand up longest and afford the best possible control of the fire. Notice that the grates are shaken without opening the ashpit door, thus keeping ash dust out of the room and off the teacher's clothes — another element of Waterbury cleanliness. The furnace and casing are supported independently on the sturdy angle iron base. Durability and efficiency, as well as good looks, are apparent in every feature of this heater.

MADE IN TWO CONVENIENT SIZES:

TABLE OF SIZES AND CAPACITIES

Size	Size of Cabinet	Height of Cabinet	Diameter Furnace Body	Diameter of Grate	Capacity Water Pan	Diameter Smoke Pipe	Shipping Weight Crated	Capacity Cubic Feet
210	30x30	60"	21"	18"	8 qt.	10½x11¼	760 lbs.	8,000
240	34x34	60"	24"	20"	8 qt.	10½x11¼	900 lbs.	12,000

NOTE: In states South of a line drawn east and west thru the southern border of Tennessee, size 210 can safely be used in rooms up to 15,000 cubic feet, and size 240 in rooms up to 21,000 cubic feet.

BUILT BY HEATING EXPERTS!

IT takes experience to build a heater that so completely meets every heating and ventilating need as does this one. Beauty, efficiency as a heater and ventilator, durability, fuel economy, low upkeep expense — all of these things were considered when we built this modern heater. In addition to these principal advantages there are countless other little features that make the Waterbury so popular. The top, it will be noted, is finished by an artistic grill, which not only improves the looks of the heater, but serves as a mighty satisfactory warmer for lunches. Think how handy this would be.

The large casing doors also open up wide, so that the children can warm or dry themselves quickly. The grates are regular furnace grates. The ashpit is deep and it is not necessary to open the ashpit door in order to shake the grates. The water pan is easy to fill, has plenty of capacity to adequately moisten the air and can be quickly removed for cleaning. A heat interceptor is built in under the ashpit. No unsightly floor iron is required.

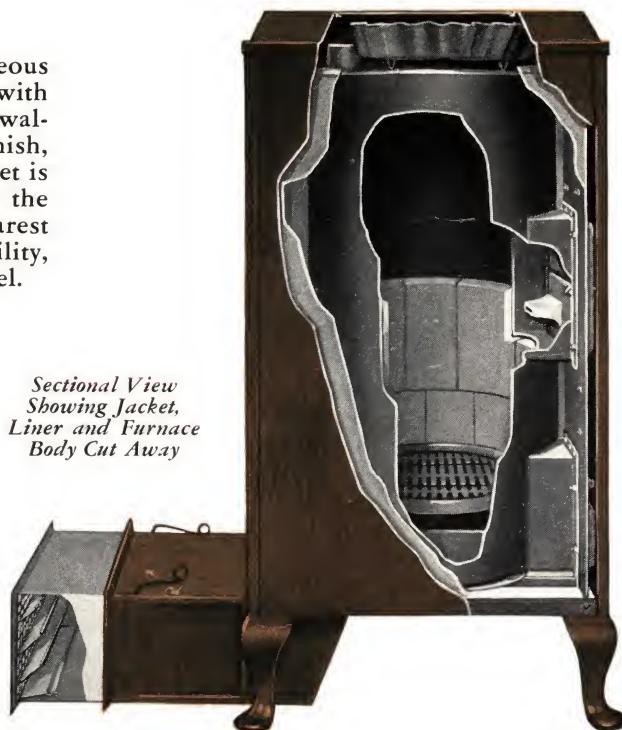
A HEATER OF OUTSTANDING QUALITY

Jacket is finished in durable vitreous enamel, a finish that can be washed with soap and water, a beautiful imitation of walnut that stays fresh, that does not tarnish, scratch nor fade. For comfort, the jacket is lined with a heat interceptor to keep the heat from scorching those seated nearest the heater. For cleanliness and durability, the heater body is made of welded steel.

The large fresh air intake admits wholesome volumes of fresh outdoor air to be heated and moistened before it is circulated thru the room. This intake is of exceptionally heavy construction and thoroughly insulated. The outside screen is made of heavy galvanized steel with louvres turned up at the inner edges to keep rain and snow from beating in. Here is a combination of beauty and economical service that adds to the appearance and enjoyment of any modern school.



*Front View — Doors Open
The Waterbury Seamless Heater*



*Sectional View
Showing Jacket,
Liner and Furnace
Body Cut Away*

THE WATERBURY HEATING and VENTILATING SYSTEM

»» THE WATERBURY SEAMLESS HEATER ««

THE Waterbury Seamless Heater is our finest heater. In it we have incorporated every feature proved best by long experience. In beauty of finish, durability, ventilation, economy, it is the finest school room heater made. Not only is it a thing of beauty, but it stays beautiful.

Naturally such an outstanding product costs a little more at the start than others not so well built, but in the end, the Waterbury Seamless Heater will be the most economical. Long after other heaters have become tarnished, faded and battered out of shape, this sturdy heater will look like new. Long after other heaters have been cast aside, because of the need for costly repairs, this improved heater will be found to be giving economical and satisfactory service.

»» THE WATERBURY STANDARD HEATER ««

THE Waterbury Standard Heater is offered for the school that wants a more reasonably priced heater. This is the old standby, the heater which has made the name Waterbury so well and favorably known.

The Waterbury Standard will give dependable service over a long period of years and will adequately heat and ventilate the school for which it is intended.

»» THE WATERBURY SPECIAL HEATER ««

HERE is a practical and efficient heater at a real low price. The Waterbury Special compares very favorably with other heaters offered for sale "as the best". Jacket and ventilating appliances are the same on the Special as on the Standard, the only difference being in the weight and construction of the furnace body. The Special is especially popular in the South.

»» THE WATERBURY PENNSYLVANIA HEATER ««

THIS heater, made particularly for the soft coal mining sections where heaters get the most abuse, combines the Standard jacket and ventilating system with the all-steel furnace body. It represents a fine combination of durability and practicability.



THERE IS A WATERBURY HEATER
TO MEET YOUR NEEDS



STANDARD - SPECIAL OR PENNSYLVANIA STYLE "B" AS IT APPEARS IN THE SCHOOL

STANDARD - SPECIAL AND PENNSYLVANIA MODELS

The same type of jacket and the same ventilating fixtures are used on the Standard, Special and Pennsylvania Heaters, the only difference in these models being in the furnace body inside the jacket.

All Waterbury heaters warm the room and floor by circulating heated and freshened moist air, thus keeping the room temperature much more nearly uniform than is possible with a stove. Comfort and Health go hand in hand. The Waterbury is, therefore, a health giving system.

Note the vent regulator at the point where the smoke pipe enters the chimney. This is the secret of the ventilating efficiency of the Waterbury, exhausting the foul air out thru the vent register at the base of the chimney without checking the draft.

The heavy furnace inside the casing is quickly accessible thru the large casing door, which opens wide, permitting children to warm themselves and dry their clothing in the direct heat of the furnace if they wish.

The black enamelled casing is strong and neat in appearance and is lined with corrugated asbestos paper and corrugated steel, for greatest strength, and also to protect the children from the direct heat of the furnace.

The system is furnished complete as shown, ready for installation, with furnace, casing, fresh air intake, foul air register, vent regulator, smoke pipe and floor iron. Complete illustrated instructions, packed with each heater, make it possible for a handy man to install this System in a day without special tools.

THE WATERBURY STANDARD HEATER

A "BETTER THAN AVERAGE" HEATER



A "better than average" heater — built for economy. Its price is no higher than that of other heaters that are not so well built, yet it lasts longer and requires less upkeep expense.

The Waterbury Standard is recommended for the school that wants durability, efficiency and freedom from trouble at moderate first cost.

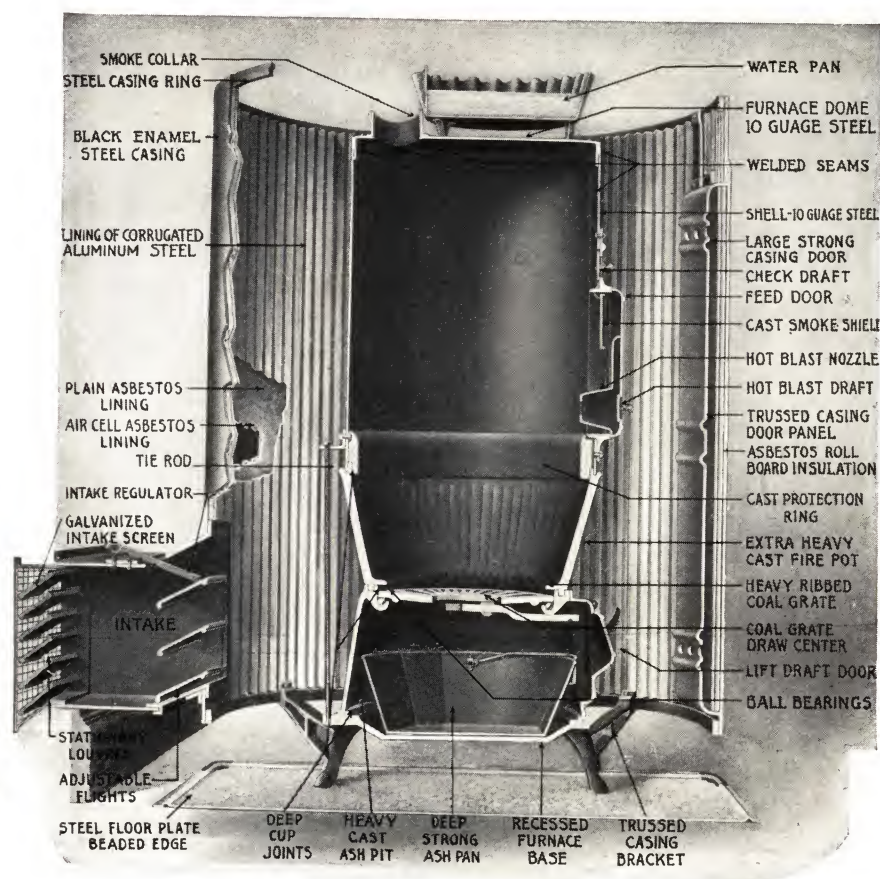
The Waterbury Standard is built for years of economical service at minimum cost. Its 10-gauge steel combustion dome is over $\frac{1}{8}$ " thick with all seams welded. The firepot and all other cast iron parts are especially heavy and designed to give maximum service.

Three tie rods on the outside of the furnace hold the furnace securely together, and inasmuch as they are not exposed to the fire and will not burn in place, make repairs easy should they ever be needed.

The deep ashpit keeps the level of the ash pan low and saves the grates. Quality and service stand out in every feature of this heater, which is the standard of perfection for its type.

HEATS
VENTILATES
CIRCULATES
HUMIDIFIES
PURIFIES

Built for
Lasting Service



SECTIONAL VIEW—WATERBURY STANDARD HEATER

ALL Waterbury Heaters are made from our own patterns and are especially designed for the rough usage to which a school room heater is subjected.

The best stoves are not sturdy enough to stand up inside a casing. The converted basement furnace with its projecting feed and ash chutes and its cumbersome appearance is not suitable as a room heater.

The Waterbury is really a heavy furnace, built to stand years of hard service, and at the same time it is as accessible and easy to handle as a common stove.

Note especially the deep heavy firepot, the deep ashpit, the evident sturdy construction of every part; the large, heavily trussed casing door, the casing lined with steel instead of tin, and many other exclusive Waterbury features which make for service, comfort and durability.

TABLE OF SIZES AND CAPACITIES—STANDARD HEATER

Size	Diameter of Casing	Height Furnace Body with Legs	Height Casing Floor to Top	Approximate Shipping Weight Style "B"	Capacity Cubic Feet
21	37 in.	58 in.	64 in.	625 lbs.	5,500
23	42 in.	60 in.	64 in.	750 lbs.	9,000
25	42 in.	61 in.	64 in.	800 lbs.	15,000

THE WATERBURY PENNSYLVANIA HEATER



*Welded Gastight
Waterbury Pennsylvania Furnace*

This heater is offered for those who prefer the greater durability of bricklined all-steel construction.

The Pennsylvania Heater is made of heavy steel with all seams welded gastight — the strongest possible construction. The firepot is lined with firebrick—easy to replace—the same material that is used in foundry cupolas in which cast iron is melted.

Rocker grates are used with this furnace, which will burn any fuel. All three grate bars are shaken by one shaker handle without opening the draft door.

Casing, intake and ventilating fixtures are the same as are furnished with Standard and Special models.

The Pennsylvania is recommended to those who want excess power combined with durability and low upkeep expense. It is especially suited to the severe requirements of the soft coal mining districts where poor cheap coal is used.

At right:
Cross section of Waterbury Heater with Pennsylvania all-steel furnace made to meet the hardest test with a minimum of upkeep expense.

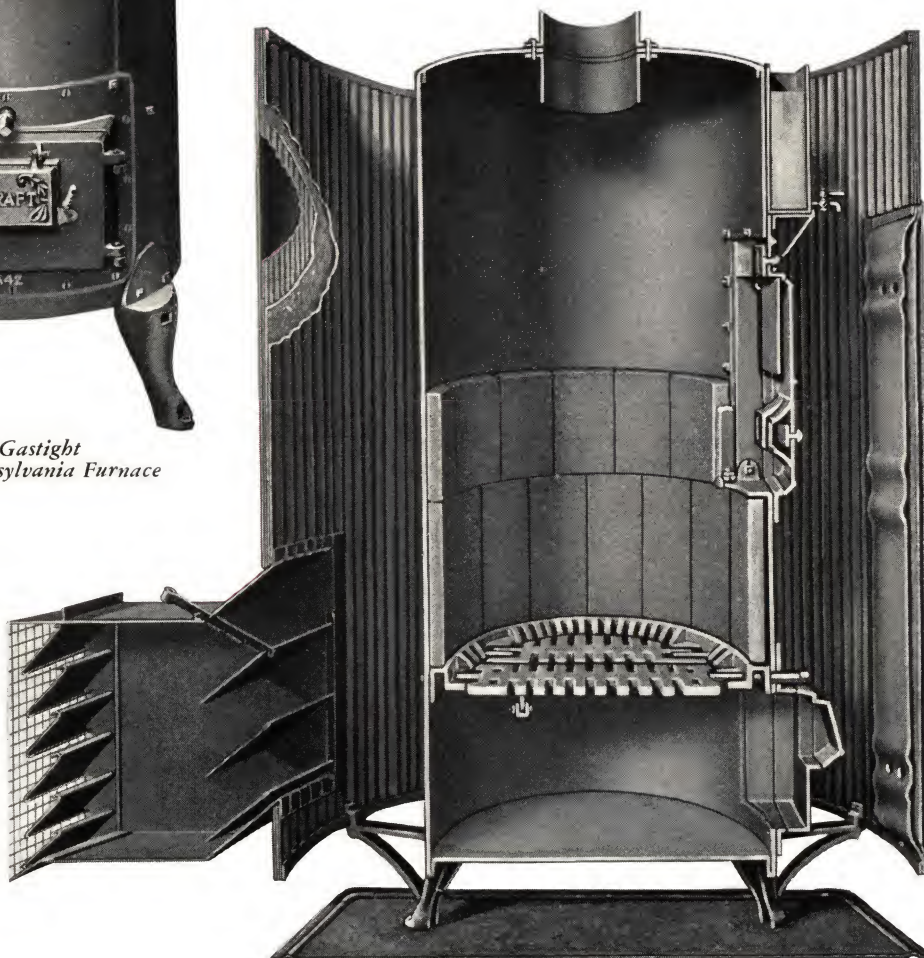


TABLE OF SIZES AND CAPACITIES

Size	Diameter of Casing	Height Furnace Body with Legs	Height Casing Floor to Top	Approximate Shipping Weight Style "B"	Capacity Cubic Feet
26 Pa.	42 in.	65 in.	64 in.	925 lbs.	15,000

THE WATERBURY SPECIAL HEATER



*Heavy Furnace Body
Waterbury Special
Heater*

At right:

Sectional view of Waterbury Special showing fresh air intake, steel lined casing, big, strong casing door and detailed construction features of Waterbury Special Furnace Body.

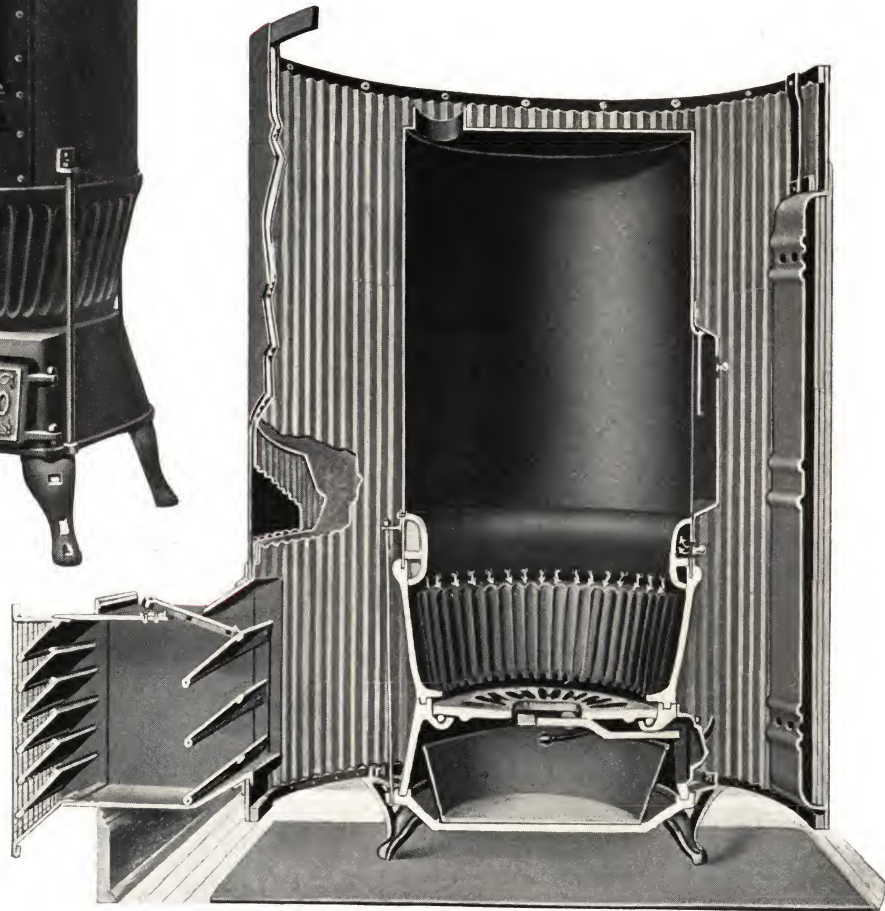


TABLE OF SIZES AND CAPACITIES

Size	Diameter of Casing	Height Furnace Body with Legs	Height Casing Floor to Top	Approximate Shipping Weight Style "B"	Northern Capacity Cubic Feet	Southern Capacity Cubic Feet
18	34 in.	53 in.	56 in.	450 lbs.	4,000	8,500
20	37 in.	57 in.	64 in.	600 lbs.	5,500	10,000
22	42 in.	57½ in.	64 in.	650 lbs.	9,000	15,000
24	42 in.	57½ in.	64 in.	700 lbs.	15,000	21,000

NOTE: Southern capacities apply only to states south of a line drawn east and west thru the southern border-line of Tennessee. For all points north of this line, northern capacities should be followed.

WATERBURY HEATERS ARE WELL MADE

STURDY CASING



Strength is necessary in a school heater. As the picture shows, the Waterbury casing has an outer layer of stamped steel, an inner layer of corrugated steel and a liner of corrugated asbestos paper, all securely riveted together and supported by a heavy rigid steel framework.

The Waterbury Casing is built to stand hard knocks.

TRUSSED CASING DOOR



No school room heater is complete without a big casing door.

It is easy enough to build a big casing door, but hard to build it so that it will keep its shape.

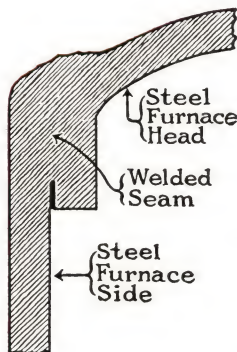
Waterbury solved this problem by trussing the door on the inside with a steel liner, built like a bridge.

The result is almost unbelievable strength, a casing door that keeps its shape and makes it possible for the children to warm

themselves or dry their shoes or clothes before taking their seats.

Space does not permit the description of every good Waterbury feature in this catalog. The purchaser will find, however, that these examples are typical of the sturdy construction of the Waterbury Heater in every feature.

WELDED STEEL



All steel parts of the Waterbury Heater are welded. There are no bolts to loosen, no rivets to tear out. This construction has been adopted as standard with us after years of experience with all types of construction.

Welding holds better and lasts longer, and the best thing about welding is that it is permanently gastight.

Coal gas is a poison. The school room air must not be contaminated by poisonous gases.

Waterbury welded construction is a real and definite guaranty against leakage of smoke and coal gas thru these parts.

In this feature alone there is sufficient reason for the installation of a Waterbury System.

PLENTY OF MOISTURE

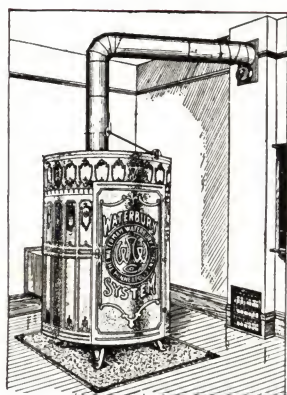


Every Waterbury is equipped with an efficient humidifier. The one shown is used on all models, except on the Pennsylvania No. 26. (see picture page 9) Moisture is necessary to the best health condition of any school, and particularly where

fresh air from out of doors is being constantly brought into the room.

Our modern factory and large volume are the customer's guaranty of high quality at lowest cost.

CAN BE INSTALLED WITH ANY CHIMNEY



Style "B"

STYLE "B"

Style "B" Heater shown at left is our most popular heater and requires a chimney at least 12x12" on the inside, built to the floor line. In Minnesota, Pennsylvania, Michigan, Illinois, Ohio, Indiana and New Jersey style "B" chimney size is regulated by the State, and the chimney size should comply with state requirements.

Foul air is constantly exhausted thru the vent register at the base of the chimney. The heavy vent regulator, where smoke pipe enters chimney is the device that accelerates the flow of foul air without checking the draft.

Note that the Waterbury vent regulator does not deflect nor check the foul air flow, also that it is provided with a simple cleanout, making it possible to clean the regulator without taking down the smoke pipe.

Style "B" which uses the chimney both for smoke and ventilation looks the neatest, but where the chimney is not large enough, or where for any reason it is not desirable to supply a new chimney, style A, C or G can be used to fit the chimney condition as illustrated below.

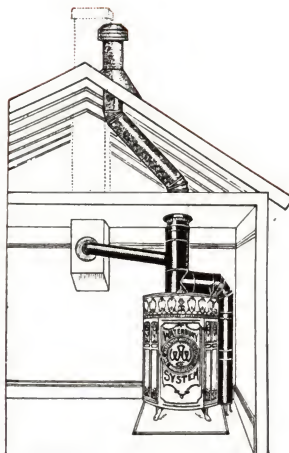


Style "B" Chimney



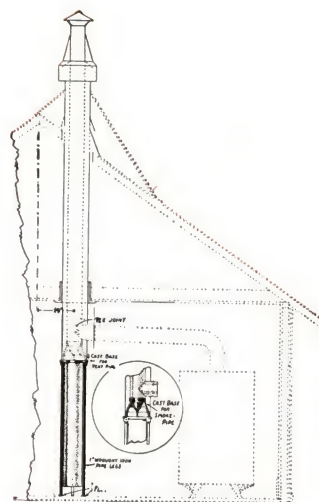
Style "A"

For use where shelf chimney is 12x12 inside or larger. Like style "B", size of chimney is regulated in some states by state authorities. Not recommended where new chimneys are being built, because of neater appearance of full length chimney. Uses chimney for both smoke and ventilation.



Style "C"

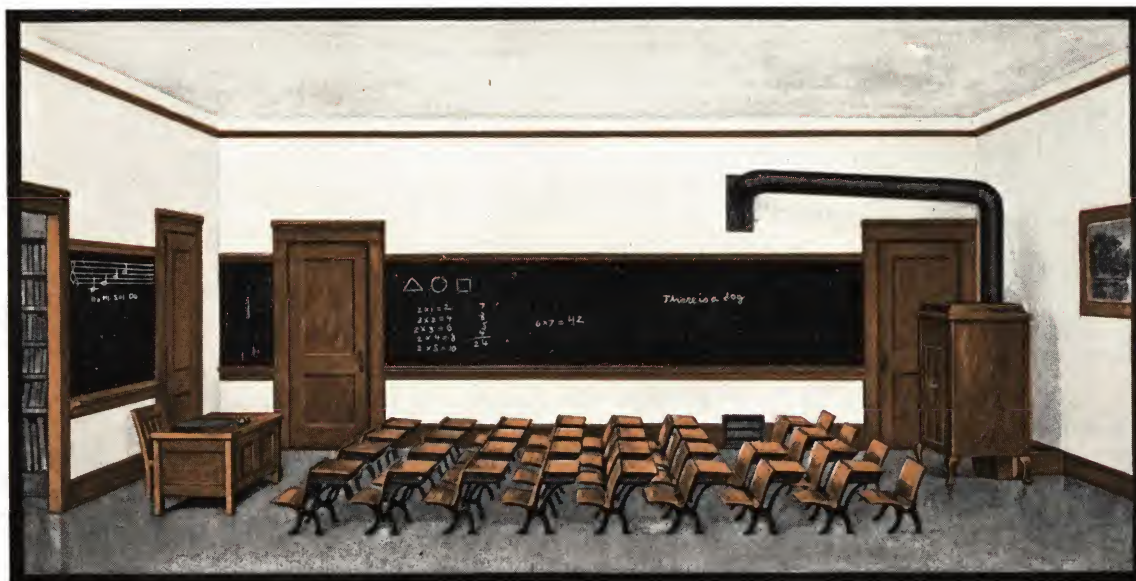
Equipped with special vent pipe which surrounds smoke pipe part way to accelerate ventilation. Uses chimney for smoke only, and can be used with any satisfactory chimney. An excellent ventilator. Can later be converted to style "B" if moved into new building at slight extra cost. Furnished with all models except sizes 210 and 240.



Style "G"

A complete heavy durable steel chimney for portable school, or wherever it is impracticable to build a new chimney. Very efficient as a ventilator. Supported by strong bracket and legs from wall and floor. Protected by safes thru ceiling and roof. Eighteen gauge smoke pipe inside vent pipe rests on cast base.

CITY HEALTH AND COMFORT FOR THE RURAL SCHOOL



"How Neat the New Waterbury Seamless Heater Appears in the School"

WHEREVER a room is occupied by many people for long periods of time, there is a real need for ventilation. This need is recognized by engineers, architects and school authorities everywhere. City schools in particular are almost universally equipped with modern heating and ventilating systems. Surely, the child in the rural school is just as valuable and is entitled to health protection and comfort just as much as the city child. The Waterbury System is a complete, adequate ventilating System for rural and village school use. It is not an expense but rather an investment. The comparatively slight first cost is returned many times in greater comfort, improved health, lowered doctor bills and lives enriched by the blessings of health and education. It has been estimated that 25% less work is accomplished in a stove-heated school. The greater efficiency of the Waterbury school will more than pay for the comparatively small investment before it has been in use a year.

GEO. H. MULMER, PRESIDENT
WARTON, N. J.

WILLIAM WILLIS, CUSTODIAN
WARTON, N. J.

W. H. HADGON, DISTRICT SELLER
OAK RIDGE, N. J.

Board of Education JEFFERSON TOWNSHIP

OAK RIDGE, NEW JERSEY, June 5, 1929

Mr. S. J. Butts,
Harrisburg, Pa.

Dear Sir:- Jefferson Township, Morris Co., N.J., is herewith placing its order for three Waterbury Seamless Heating and Ventilating Systems, to replace old style room heaters in our Hurdtown and Berkshire schools.

The two heaters of this beautiful new type which you furnished us a year ago have given splendid service in every way possible. Ample ventilation and ample heat in all weathers with the heat evenly distributed to all parts of the rooms.

There was actual economy of fuel used and always easy control of the fire. On this last point the heaters gave a truly remarkable performance in holding fire over Thanksgiving recess without care.

The effects of the more comfortable, better ventilated and much more attractive schoolrooms resulting from these beautiful Seamless Heaters are also reflected in the much better attendance record we have had during the past year. Jefferson Township is delighted with the service received from the Waterbury Seamless Heating and Ventilating Systems.

Very truly yours,

Frederick E. Butts
District Clerk.

Read What a Waterbury User Thinks

The Waterbury System heats by circulation of warm air; it bathes the floor with a flood of warmth and keeps the temperature in all parts of the school room substantially uniform. The Waterbury System brings to the smaller school the blessings of adequate ventilation and uniform heat. It abolishes the unsightly stove and substitutes a thoroughly modern, economical heating plant that takes up no valuable space, is easy to take care of and is pleasing in appearance. Give your child and your neighbor's children the benefit of this modern improvement. Install a Waterbury System now. There is a size and style just suited to your school, and the price depends on the one you choose. Health, Comfort, Efficiency and Neatness—these are the things demanded by the modern school.

Modernize your school with a Waterbury System.

WATERBURY SANITARY BUBBLING FOUNTAIN

PREVENTS SPREAD OF DISEASE FROM MOUTH TO MOUTH



Style "D"

Capacity 10 gallons.

Vitrified Stone Container with hopper bottom. Opening for water feed pipe in center of bottom.

Container surrounded by white enameled steel casing with insulated cover of same material.

Standard Waterbury Bubbler and Valve construction.

Legs of wrought iron piping with cast feet supported by strong cast iron supporting shelves for jar and waste pail.

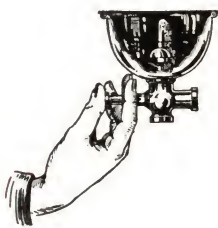
Bubbler sturdily braced by cast brace.

Finish of stand and waste pail dark sea green which contrasts prettily with the snow white enameled container casing and cover.

Shipping Weight 120 pounds.

Every Waterbury Fountain Has These Outstanding Advantages

1. Vitrified Stoneware Container easily removed for cleaning. "As clean as a China Plate."
2. Fine Nickel Plated Copper Mesh strainer to keep sediment from clogging bubbler.
3. Top of bubbler is far enough below bottom of tank to insure good pressure even when tank is nearly empty.
4. Bubbler assembly is heavily braced to eliminate possibility of breakage.
5. Bubbler and valves are of our own make—easy to keep in repair.
6. Drain valve to permit drainage at night and prevent damage by freezing.
7. Independent waste pail, easy to empty.
8. All plumbing open—easy to clean.
9. Neat appearance.
10. Strong sturdy construction.



Bubbler valve and valve housing are of heavy brass and bowl is of spun copper, nickel plated. Either valve or bubbler can be removed for repair or cleaning without disturbing other parts. Water stream is small—does not waste water—and yet gives a clean satisfying drink. It is very difficult for the drinker to touch his lips to the bubbler.



Style "A"

Capacity 5 gallons.

Vitrified Stone Container with cover of same material.

Opening for water feed pipe at side of container. Bottom of container slightly higher at center than at sides.

Standard Waterbury Bubbler and Valve construction.

Steel standard, well supported and neatly finished in black enamel.

Shipping Weight 60 lbs.



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Mike Jackson, FAIA



THE WATERBURY SYSTEM

Healthful Heat with Ventilation for

Village and Rural Schools

THE WATERMAN-WATERBURY COMPANY

MINNEAPOLIS, MINNESOTA